

NATURAL PROFILE ABUTMENT

Summary

The Natural Profile Abutment System™ enables the clinician to restore cases that are periodontally and aesthetically demanding. This versatile system permits the development of an emergence profile, which is in harmony with the soft tissue. Final margination can be prepared to accurately follow the gingival con-tours in order to achieve maximum aesthetics. The impression procedure is also simplified. The abutment becomes a closed-tray impression coping with the use of the matching Impression Screw. Natural Profile Abutments are available in an economical kit or as individual components.

- Non-rotational design for standard, external-hex implants.
- Commercially pure titanium.
- Identically contoured anatomical healing abutments.-Abutment body functions as impression coping.
- May be used in cement retained or retrievable formats.



Indications

The Natural Profile Abutment is suitable for single and multiple tooth restorations. It may be utilized as a retrievable or cemented restoration.



NATURAL PROFILE HEALING ABUTMENTS

Install NHC with ASW, DSL, DSLL, AHSL, DHSL, DHELL, HN** or HNL**.

Item	Number	Reference
5mm Dia Nat. Profile Healing Abutment, 1mm cuff	904252	NHC 5x1
5mm Dia Nat. Profile Healing Abutment, 2mm cuff	904253	NHC 5x2
5mm Dia Nat. Profile Healing Abutment, 3mm cuff	904254	NHC 5x3
5mm Dia Nat. Profile Healing Abutment, 4mm cuff	904255	NHC 5x4
6mm Dia Nat. Profile Healing Abutment, 1mm cuff	904256	NHC 6x1
6mm Dia Nat. Profile Healing Abutment, 2mm cuff	904257	NHC 6x2
6mm Dia Nat. Profile Healing Abutment, 3mm cuff	904258	NHC 6x3
6mm Dia Nat. Profile Healing Abutment, 4mm cuff	904259	NHC 6x4
7mm Dia Nat. Profile Healing Abutment, 1mm cuff	904260	NHC 7x1
7mm Dia Nat. Profile Healing Abutment, 2mm cuff	904261	NHC 7x2
7mm Dia Nat. Profile Healing Abutment, 3mm cuff	904262	NHC 7x3
7mm Dia Nat. Profile Healing Abutment, 4mm cuff	904263	NHC 7x4

**Do not torque to place. Use TK, thumb knob only, order no. 905213

NATURAL PROFILE ABUTMENTS

- Includes the Prosthetic Screw • Identically contoured to the Healing Abutment • Install with Large External Hex Drivers



Item	Number	Reference
5mm Dia. Natural Profile Abutment 1mm cuff	904240	NAP 5xl
5mm Dia. Natural Profile Abutment 2mm cuff	904241	NAP 5x2
5mm Dia. Natural Profile Abutment 3mm cuff	904242	NAP 5x3
5mm Dia. Natural Profile Abutment 4mm cuff	904243	NAP 5x4
6mm Dia. Natural Profile Abutment 1mm cuff	904244	NAP 6xl
6mm Dia. Natural Profile Abutment 2mm cuff	904245	NAP 6x2
6mm Dia. Natural Profile Abutment 3mm cuff	904246	NAP 6x3
6mm Dia. Natural Profile Abutment 4mm cuff	904247	NAP 6x4
7mm Dia. Natural Profile Abutment 1 mm cuff	904248	NAP 7xl
7mm Dia. Natural Profile Abutment 2mm cuff	904249	NAP 7x2
7mm Dia. Natural Profile Abutment 3mm cuff	904250	NAP 7x3
7mm Dia. Natural Profile Abutment 4mm cuff	904251	NAP 7x4

NATURAL PROFILE ABUTMENT RESTORATIVE COMPONENTS:

Item	Number	Reference
Natural Profile Impression Screw (1) Install with Friction Driver	904155	IS/1
5-pack	904156	IS/5
Prosthetic Screw, titanium Install with Large External Hex Drivers.	904170	PS
Implant Analog, brass	904228	ILR
Implant Analog, stainless steel	904233	LRS
Implant Analog, titanium	904226	ILRT
Pin Vise	905215	PV
Gold Prosthetic Screw*	904175	PSG
CeraOne™ Abutment Square Driver	905232	CERA

*This optional screw has a square drive and may be torqued to 30 Ncm

NATURAL PROFILE ABUTMENT KITS

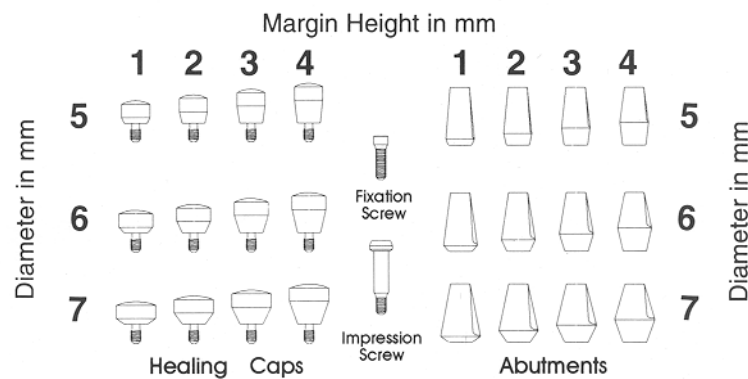
Kit Contents: 1 Healing Abutment, 1 Natural Profile Abutment, 1 Impression Screw and 1 Prosthetic Screw

Item	Number	Reference
5mm Natural Profile Abutment Kit, 1 mm cuff	904062	APP 5x1
5mm Natural Profile Abutment Kit, 2mm cuff	904065	APP 5x2
5mm Natural Profile Abutment Kit, 3mm cuff	904068	APP 5x3
5mm Natural Profile Abutment Kit, 4mm cuff	904071	APP 5x4
6mm Natural Profile Abutment Kit, 1 mm cuff	904074	APP 6x1
6mm Natural Profile Abutment Kit, 2mm cuff	904077	APP 6x2
6mm Natural Profile Abutment Kit, 3mm cuff	904080	APP 6x3
6mm Natural Profile Abutment Kit, 4mm cuff	904083	APP 6x4
7mm Natural Profile Abutment Kit, 1 mm cuff	904086	APP 7x1
7mm Natural Profile Abutment Kit, 2mm cuff	904089	APP 7x2
7mm Natural Profile Abutment Kit, 3mm cuff	904092	APP 7x3
7mm Natural Profile Abutment Kit, 4mm cuff	904095	APP 7x4



COMPONENT LIST

- Temporary Healing Abutment
- Natural Profile Abutment
- Impression Screw
- Prosthetic Screw



The technique described on the following pages is a very straight forward technique that utilizes ordinary prosthodontic skills and procedures that are familiar to the restorative dentist. As an alternative, the abutment may be placed on the implant after sufficient healing time and prepared chairside to approximate needed shape. Then final preparation may be done intra-orally as a natural tooth. The impressions can then be made and the final restoration fabricated using normal crown and bridge techniques.

INSTRUCTIONS:

DIAGNOSIS AND TREATMENT PLANNING

1. Site selection is analyzed and a determination is made as to the type of treatment indicated. Consideration should be given to either a conventional fixed bridge or an implant supported restoration that is cemented or screw retained.

In the example that we will follow here, a missing mandibular second bicuspid will be replaced with an implant supported restoration utilizing the Natural Profile Abutment System and a cemented crown (Fig. 1). This technique is also applicable to multiple tooth restorations.

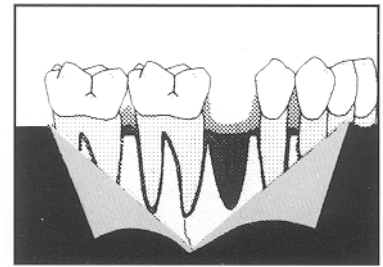


Fig.1

IMPLANT PLACEMENT

2. An external hex implant, either a cylinder or a screw, is placed in the optimum position relative to the final restoration (Fig. 2). It is important that the head of the implant be sufficiently below the gingival level of the adjacent teeth in order to develop the proper emergence profile. If the implant head is sitting too high, it will be difficult, if not impossible, to develop the proper contours. Particular attention should be paid to the bucco-lingual and the mesio-distal placement of the implant.

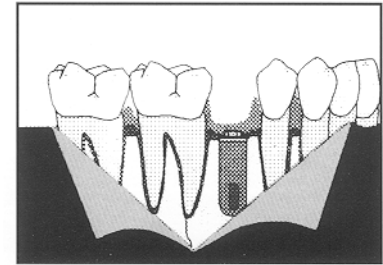


Fig.2

TEMPORARY HEALING ABUTMENT

3. To select the correct abutment size for proper crown or bridge contours two simple measurements are required. The available abutment diameters are 5, 6, and 7 mm. These should be chosen to best match the sizes of the existing dentition or the planned new dentition. The margin heights of 1, 2, 3, and 4 mm are chosen by measuring prevailing buccal tissue depth. As in typical crown and bridge restorations the abutment margin should be sub-gingival approximately 1 to 2 mm.

For example, the bicuspid discussed is about 6 mm in diameter at the CEJ and tissue depth to the implant is 4 mm. These measurements call for an APP6X2, that is a 6 mm diameter abutment with a 2 mm margin height (Fig. 3).

The dimensions of the healing abutments and the final abutments are identical. They are available prepackaged together in a matched kit or separately.

The size of the healing abutment (the diameter and the margin) are etched on the top of the healing abutment body and simplify ordering of the matching final abutment. Typical gingival healing times are four to six weeks.

The healing abutment can be installed into the implant using either a Large Hex Driver or a Slotted Surgical Driver.

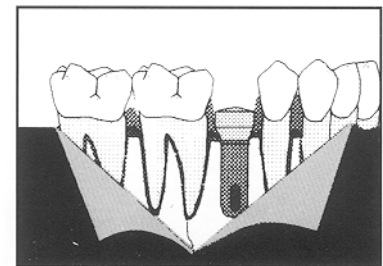


Fig.3

ABUTMENT PLACEMENT AND IMPRESSION

4. After complete healing, the temporary healing abutment is removed and the Natural Abutment with the Impression Screw is placed securely on the implant (Fig. 4). Friction Driver 905002 is the proper driver for this procedure. A confirming x-ray is necessary at this point to determine complete seating of the abutment on the implant. An impression may then be made with the crown and bridge impression material of choice.

The reason for matching the shape of the healing abutment to the final abutment now becomes apparent. The tissue profile created by the healing abutment perfectly accommodates the final abutment.

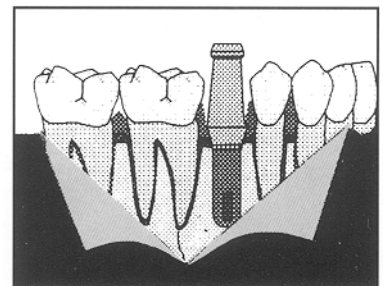


Fig.4

THE WORKING CAST

5. The Natural Abutment is removed from the mouth, placed on an Implant Replica and replaced into the impression. A master cast is then poured using the appropriate die stone.

A soft tissue cast is recommended (Fig. 5).

PREPARING THE ABUTMENT

6. The Impression Screw is then removed and the Prosthetic Screw substituted. The abutment is prepared to simulate the preparation of a natural tooth for a full crown restoration (Fig. 6).

The soft tissue portion of the working cast can be removed to facilitate this procedure. DHELL (905028) is the proper driver for this procedure.

FABRICATING THE FINAL RESTORATION

7. The final restoration may then be completed using conventional laboratory techniques (Fig. 7). If it is desired to have a retrievable restoration, a screw-access hole may be left in the occlusal surface of the completed restoration.

This technique is compatible with many crown and bridge materials. Proper seating on implants should be verified by x-ray during impression and final abutment try-in.

INSERTION OF THE FINAL RESTORATION

8. The abutment and the final restoration are returned to the mouth for try-in and evaluation. All adjustments are made and the restoration is cemented with the cement of choice.

If the decision is made to provisionally cement the restoration, it must be remembered that the cement bond between metal and metal surfaces is not very strong. The patient should be cautioned about possible cement failure and dislodgement of the restoration.

Install the prepared final abutment onto the implant using the Prosthetic Screw (PS) with the Hex Driver (DHELL). Verify the complete seating of the abutment hex to the implant hex before cementation of the bridge. An alternative is to install the abutment with the Gold Prosthetic Screw (904175), using the square driver (CeraOne™, 905232). This screw maybe torqued to 30 Ncm.

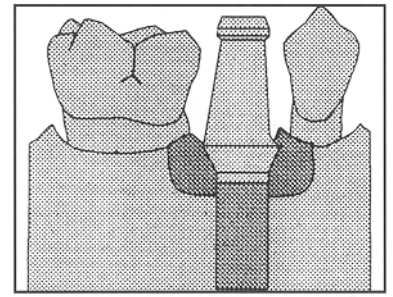


Fig.5

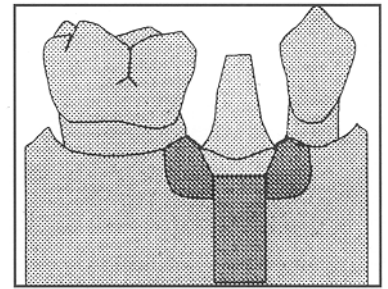


Fig.6

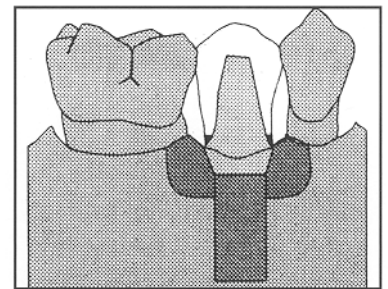


Fig.7

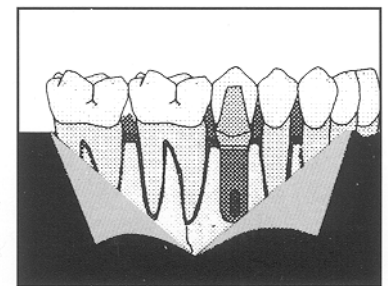


Fig.8